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ABSTRACT

During fiscal year 1970, the states received $1.1 million for research under Section 131(b) of Part C of the Vocational Education Amendment. This amount was sufficient for states to keep their Research Coordinating Units (RCU's) functioning, but provided very little for new research. The main activities of the RCU's were to disseminate results of research, answer inquiries, assist in the use of ERIC materials, assist in the preparation of proposals, assist in state program planning and development, and conduct research studies when monies were available. Evaluation studies were conducted by 13 RCU's. Thirteen states reported studies for the implementation of guidance systems or curriculum development, and 10 states reported research projects directed at problems of the disadvantaged and handicapped. Seminars and educational personnel development were frequently noted as research-related activities. This document contains summaries of quarterly reports from all 50 states. (GEB)

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# ANNUAL REPORT

# ON

# STATE RESEARCH COORDINATING UNIT ACTIVITIES

# FOR FISCAL YEAR 1970

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Elliot L. Richardson, Secretary

Office of Education
S.P. Marland, Jr., Commissioner

Division of Vocational and Technical Education
Bureau of Adult, Vocational, and Technical Education

VT013077

# I N T R O D U C T I O N

In fiscal year 1970, the States received a total of $1.1 million for research under Section 131(b) of Part C of the Vocational Education Amendments of 1968. These funds could be used for paying up to 75% of the costs of the State Research Coordinating Unit (RCU) and for grants and contracts covering 90% of the costs of research and/or developmental projects. The funds were not released until April 1970, due to the timing of the Congressional appropriation.

Most States received the minimum allotment of $15,000. Only seven States received more than $30,000 for research, with the maximum amount received by the largest State being $61,000. Thus for FY 1970, Part C funds were provided at a level barely adequate to help States maintain an RCU staff, with little left to carry on a research program for vocational education.

The States did manage to keep their RCU's functioning during fiscal year 1970, conducting some in-house studies with their own staff and funding some research projects, mostly with Part B and State monies. Some States were able to accomplish some valuable and needed research, but others, particularly the smaller States, were not able to carry on very significant programs because of the extremely limited funding. Only 9 States funded grants or contracts out of the Part C allotment.

The main activities performed by the RCU's this year were: dissemination of the results of research, answering inquiries, assisting in the use of ERIC materials, and assisting in preparation of proposals. Over 22 States reported these activities. Research studies to determine the need for facilities, instructional staff, and manpower in local or State areas were sponsored in 19 States.

Another major effort of RCU staffs was that of assisting in State program planning and development. Providing statistics for State program plans and assisting in the preparation of the plans were two such activities. Evaluation studies were undertaken by 13 RCU's during the year. In addition, 13 States reported studies for the implementation of guidance systems or the development of curriculums. Follow-up studies were usually conducted by RCU's for one of two reasons: to evaluate effectiveness of programs or to gather ideas for making changes in existing programs. This type of study was reported by 12 States.

Research projects directed at problems of the disadvantaged and handicapped were undertaken in 10 States. Other frequently mentioned areas of concentration were: securing the cooperation of industry in programs of vocational education, pre-vocational training programs, public relations for the image of vocational education, and projects for vocational education in rural areas. Seminars and other educational personnel development activities were among the most frequently noted of research-related activities.

The outlook for State research activity in fiscal year 1971 is an improvement over FY 1970 in that for FY 1971 the States received $17.5 million under Section 131(b) of Part C in October 1970. The minimum amount received was $23,000 by Alaska and the maximum was $1,389,000 by California. Over 75% of the States received more than $100,000 for research. Many States actually have FY 1971 proposals in hand at this time and are in the process of reviewing the proposal documents and awarding grants.

The Annual Report which follows is a compilation of State Quarterly Reports which have been received from RCU's. The reports are uneven in quantity of work reported due to three main factors: the late date at which the FY 1970 fundings became available, the small size of allotments, and the Tydings Amendment which authorized carry-over funds in educational allotments to the next fiscal year. Thus, States could obligate all or part of their FY 1970 allotments during FY 1971 and the State report might show no activities or projects for FY 1970.

All reported research projects administered by the State educational agency were included in this report, whether or not they were funded under Part C.

Summaries of

State Research Coordinating Unit

Quarterly Reports

Fiscal Year 1970

## ALABAMA

J. C. Lindley, State Director for Vocational Education

Richard A. Baker, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Held research and development seminars for local and State personnel in vocational education

2. Held an institute-workshop for planning research and research-related programs in vocational education for local level personnel

3. Held instrument development and field utilization seminars for planning local vocational education programs

4. Developed the State Plan for Professional Development of Vocational Education Personnel

PROJECTS AND ACTIVITIES PLANNED:

1. Development of a scale for measuring attitudes toward vocational-technical education

2. A study of proficiency ratings and personality traits and their relationship to employability for stenographic and secretarial science graduates

3. A survey of cosmetology businesses in Alabama to identify present and future employment opportunities

4. Development and operation of a pilot occupational information services system

5. Development of a system for State and local evaluation of vocational education

6. Manpower survey in distributive occupations

7. Analysis of the occupational structure of Alabama agribusiness

8. State and county socio economic statistics for programming vocational education

9. Development of an evaluation model for exemplary programs

10. Handbook for developing local plans for vocational education

11. A study of the utilization of secondary and postsecondary school facilities in the Appalachia area of Alabama

12. Development of a working paper for implementing a planning, programming, and budgeting system at the State level

13. Development of guidelines for evaluating vocational education facilities

ALASKA

Louis D. Ridle, State Director for Vocational Education

Ernest Polley, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. "A Vocational Program of Industrial Technology Unique to the Alaskan Oil Field Development" (University of Alaska)

2. "Manpower Outlook for the 70's" (Department of Labor)

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

ARIZONA

J.R. Cullison, State Director for Vocational Education

Arthur M. Lee, RCU Director

PROJECTS COMPLETED:

1. "An Instrument to Evaluate MDTA Institutional Training Projects in Arizona" (Carl E. Squires)

2. "Projections for Correctional Programs in Education" (John Glenn)

3. "A Comprehensive Reporting System for Adult Basic Education" (Arthur M. Lee, Diane B. McCarthy)

4. "Synthesis of Research and Experience in Cooperative Work-Study Vocational Education Programs" (Earl Ray Weinhold)

5. "Survey of Former Students in the Phoenix Union High School System" (Lloyd Calvin)

6. "Occupational Opportunities and Competencies Needed for Agricultural Employment in Yuma County" (T.O. Beach)

7. "School Accounting Practices for Occupational Education, An Appraisal and Suggested Revisions for the State of Arizona"

8. "A Longitudinal Experimental Program in Pre-Vocational Education-Phase I"

9. "Determination of Needs and Development of Curriculum Models in Communication Skills for Engineering and Technology Students"

10. "Industrial Internship, A Program for Industrial Teachers"

11. "Introduction to Technical Teaching, Course Outline"

12. "Office Education Survey"

13. "Office Education Cooperative Survey"

14. "Engineering and Technology in Arizona: A Report on the Education of Engineers, Technicians, and Skilled Craftsmen, and the Educational Needs of Industry"

NEW PROJECTS FUNDED:

1. "Development of a Longitudinal Study of the Results of Pre-Vocational Education (C.E. Fauset)

2. "A Study of Data Requirements for Vocational-Technical Education Cost Accounting and Cost Effectiveness Analysis in Arizona -- Initial Phase" (Stephen L. Barshy)

3. "A Community Survey of Technicians in Social Work Service" (Sister Mary Roqueta Zappia)

RESEARCH RELATED ACTIVITIES:

1. Made follow-up of 1968-69 completions in vocational education

2. Established Gila River Career Center information system

3. Prepared vocational education brochure for Prima County

4. Made professional reviews of current research

5. Published and distributed RCU Newsletter

6. Assisted Arizona Department of Economic Planning and Development to develop a State standard planning and information data base

7. Developed proposals

8. Conducted computer assisted search and retrievals of vocational

research materials in ERIC and the Arizona RCU Library

9. Developed and utilized a vocational teacher data system

10. Developed and utilized a vocational education equipment inventory control system using computer facilities

11. Assisted in organization of an Arizona Chapter of Educational Data Systems

PROJECTS AND ACTIVITIES PLANNED:

1. Complete follow-up of 1968-69 vocational graduates

2. Complete 2-year study of Vocational Education in Arizona

3. Develop equipment inventory control system for State Department of Vocational Education

4. Teacher educators' research conference

5. Junior college administrators' research conference

6. State Vocational Research Council meeting

## ARKANSAS

J. Marion Adams, State Director for Vocational Education

Grady Knight, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Published a News Bulletin

2. Prepared a bibliography of microfiche and resource materials in RCU library

3. Published annotated bibliographies entitled Occupational Surveys and Training the Socioeconomically Disadvantaged

4. Published a survey entitled Office Skill Survey of Businesses and Secondary Schools in the Northwest Arkansas Region

PROJECTS AND ACTIVITIES PLANNED:

1. "Development of a Computerized Program for a Continuing Survey of Occupational Opportunities with Emphasis on Disadvantaged Persons in Arkansas"

2. "Development of Instructional Packets Designed to Improve Communicative Skills of 10th Grade Students in Vocational-Technical Schools"

## CALIFORNIA

Wesley P. Smith, State Director for Vocational Education

Ernest R. Neasham, RCU Director

PROJECTS COMPLETED:

1. "Evaluation of Project FEAST" (U R S Research Company)

2. "Feasibility Study of Air Traffic Controller Task Analysis" (U.C.L.A.)

3. "Status and Need for Vocational Education in Madera County" (local staff)

4. "Evaluation of Summer 1969 Urban Work Study Program" (U R S Research Co.)

NEW PROJECTS FUNDED:

1. "Guidance Development, Grades 8-12 and Job Data Bank" (in cooperation with Santa Clara County Office of Education

RESEARCH RELATED ACTIVITIES:

1. Established and coordinated procedures and operations of Title II, Part F, Professional Development

2. Assisted California Advisory Council for Vocational Education

3. Organized and coordinated workshop series on "The Application of Systems Analysis to the Planning of Vocational Education Programs"

4. Held workshops emphasizing disadvantaged and handicapped students

5. Maintained liaison activities with California electronic data processing center, Department of Human Resources Development, Vocational Area Planning Pilot efforts, and ESEA Title III Pace Centers

6. Served on task force reviewing study, "A Policy and System Study of California Vocational Education"

7. Coordinated a tour of exemplary work experience programs for a

delegation of educators and lay men from Utah

8. Provided assistance in conducting the Annual California Work Experience Educators' Conference

9. Cooperated in information dissemination project being coordinated by The Ohio Center for Vocational and Technical Education

10. Participated in and attended national conferences, workshops, and institutes

11. Developed a County Directors' Workshop to kick off a program to further develop and refine the systems approach to planning and budgeting in vocational education

PROJECTS AND ACTIVITIES PLANNED:

1. Develop a vocational guidance system for grades 7-14

2. Initiate studies of the significance of the decision making process for vocational education

3. Evaluate the guidance usage of the tools VIEW and film loop

4. Evaluation of vocational education programs designed for students disadvantaged or handicapped

5. Development of an information model for the maintenance of labor force needs and related educational requirements

6. Development of a cost/effectiveness model for selected vocational education programs

7. Initiate selected job cluster research

8. Develop a task analysis methodology applicable to the air traffic controller function

9. Develop a vocational education information data bank on vocational graduates statewide

10. Establish a second series of statewide workshops to train local and county personnel in techniques of evaluation

11. Continue the expansion of a statewide research and resource information system

12. Initiate a computerized search technique for statewide users of research and resource information

## COLORADO

M.G. Linson, State Director for Vocational Education

Robert F. Barnes, RCU Director

PROJECTS COMPLETED:

1. "A Student Educational Perception Inventory" (Ivan Valentine and Dave Turner)

2. "A Follow-Up of Two-Year Reimbursed Post-Secondary Vocational Education Programs in the State of Colorado" (Connie Fritzler)

3. "New and Emerging Office Activities" (Dale D. Gust)

4. "Credentialing Trade and Industrial Teachers" (Ralph Orr)

5. "Vocational L.P.N. Program Evaluation" (Gordon Dennis McOmber)

6. "The Value of School Land Laboratories" (Robert L. Britton)

NEW PROJECTS FUNDED:

1. "Health Occupations Developmental Program at Mesa College" (Louise Moser and Elsie Simms)

2. "A Study to Determine Counselor Education Needs as Viewed by Counselors in Colorado" (Donald Frick)

3. "A Survey to Determine the Employment Opportunities Emerging in the Mini-Computer Field" (M.A. Marrese)

RESEARCH RELATED ACTIVITIES:

1. Funded a RCU graduate research assistantship in Vocational Education Department at Colorado State University

2. Continued four demonstration projects involving Introduction to the World of Work at the junior high school level

3. Implemented a statewide Vocational Student Follow-Up system

4. Cooperated with the Nebraska RCU on a post-secondary vocational teacher and administrator salary and work assignment survey

5. Maintained an ERIC dissemination center at Colorado State University and related dissemination activities

6. Redesigned and structured the State Board staff library for an automated Key Word Index search system

7. Coordinated the showing of two films produced by the State Board

8. Presented talks to State and local administrators to stimulate development of vocational research projects and for evaluation of their programs through research

9. Continued coordination of the National Evaluation Pilot Study in Colorado

10. Presented numerous talks and attended professional meetings

11. Coordinated development of seven proposals for Exemplary Programs submitted to USOE

12. Developed and submitted to USOE a State Plan for Professional Personnel Development

13. Served on a joint committee of the State Planning Branch and the State Department of Employment for outlining future data needs for State Plan development

14. Served on an evaluation team to evaluate occupational programs and organized an evaluation committee to evaluate and modify the State Vocational Student Follow-up system

15. Assisted in preparation of the Colorado State Plan for Vocational Education

16. Aided State Advisory Council in preparation of State Vocational Education Evaluation Report

PROJECTS AND ACTIVITIES PLANNED: NONE

## CONNECTICUT

Joseph F. Murphy, State Director for Vocational Education

Richard C. Wilson and Herbert Righthand, RCU Co-Directors

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. "A Study of the Need for Technicians in Connecticut Industry" (David Pinsky)

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED:

1. Long-range follow-up study of vocational agriculture graduates

2. Study to determine the labor supply output of private vocational schools and agencies

## DELAWARE

Daniel E. Koble, State Director for Vocational Education

Mildred Snowberger, RCU Director

PROJECTS COMPLETED:

1. "Selected Factors Related to Selective Service Rejection" (Jay R. Price)
2. " A Follow-up of Delaware's 1969 High School Graduates" (Joseph L. English)

NEW PROJECTS FUNDED:

1. "Education Program to Increase Research Potential Among Vocational Personnel in the State of Delaware" (John R. McGowan)
2. "Guidelines for Administering Exemplary Programs in the State" (Jay R. Price)
3. "An Occupational-Vocational Education Model for the State of Delaware" (To be named)
4. "Occupational Orientation" (Newark School District)
5. "Development and Implementation of A Comprehensive Testing Program for a Vocational-Technical Center" (Kent County Vocational School District)
6. "Project to Develop and Implement a Program for the Career Development Center of the Brandywine Educational Park" (Wilmington Public Schools)
7. "Expansion of a World of Work Experience Program" (Newark School District)

RESEARCH RELATED ACTIVITIES:

1. Completed guidelines for the Occupational Research Section including procedural assistance for writing proposals
2. Established objectives of the Occupational Research Section for the coming year
3. Began a manpower study with Bivens and Associates
4. Assisted exemplary program development

PROJECTS AND ACTIVITIES PLANNED:

1. Continued coordination of Bivens study
2. Work on Exemplary Program Proposals
3. Planning study of selected characteristics of students in New Castle County for the purpose of planning a vocational program
4. Preparation of presentations for the research training project

## DISTRICT OF COLUMBIA

Harold A. Clark, State Director for Vocational Education

Mildred P. Cooper, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Made a Division study of students' opinions concerning career and educational planning experiences
2. Made a Division-coordinated study of District citizens' opinions regarding vocational education

PROJECTS AND ACTIVITIES PLANNED:

1. Studies of occupational awareness and problems of providing vocational education for the disadvantaged at all educational levels

## FLORIDA

Carl W. Proehl, State Director for Vocational Education

K.M. Eaddy, RCU Director

PROJECTS COMPLETED:

1. "Cost-Effectiveness Analysis of Vocational-Technical Education Programs" (Richard H.P. Kraft)
2. "A Study of Nursing in Florida with Implications for Nursing Education" (Marshall W. McLeod)

3. "An Assessment of the Occupational Opportunities in the State of Florida Utilizing Knowledge and Skills Derived from the Field of Home Economics" (Agnes F. Ridley)

NEW PROJECTS FUNDED:

1. "Fusion of Applied and Intellectual Skills" (J.B. Hodges)

2. "An Exemplary Model for a Total Ecological Approach to Non-graded Vocational Programs in a Separate Educational Center" (Carl W. Proehl and K.M. Eaddy)

RESEARCH RELATED ACTIVITIES:

1. Curriculum development for junior high work experience programs

2. Developed Research Information Center

3. Continued development of "An Evaluation Model for Vocational Education Programs, Services and Activities in Florida"

4. Prepared proposals and assisted in development of local exemplary projects

5. Conducted a Southwide State Advisory Council Executive Directors meeting

PROJECTS AND ACTIVITIES PLANNED: NONE

## GEORGIA

George Mullins, State Director for Vocational Education

Gene Bottoms, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. "Implementing a Developmental Program of Vocational Education as a Part of a Total Education Program" (Carroll W. McGuffey)

2. "Coordinated Pre-vocational and Academic Education at the Middle or Junior High School Level" (Aleene Cross)

3. "Coordinated Vocational and Academic Education at the High School Level" (I.A. Dickerson)

4. "Vocational Instruction of Disadvantaged and Handicapped Students" (Curtis Ulmer)

5. "Fusing of Career Oriented Materials and Activities with Traditional Curriculums in Grades One Through Six" (Leslie Bishop)

6. "Training of Coordinators for Programs of Education and Career Exploration" (Emeliza Swain)

7. "Preparing and Assisting Area High School Vocational Education Supervisors in Implementing Sequential Vocational Education Programs" (George O'Kelley)

8. "An Institute for Work Experience Coordinators to Direct Cooperative Programs for the Disadvantaged" (H.R. Cheshire)

9. "Training Programs for Leadership Personnel for Post-Secondary Area Vocational Schools" (George O'Kelley)

10. "A Planned Occupational Experience for Long-Service Vocational Teachers" (William H. Armstrong)

11. "A Consortium Trade and Technical Education Baccalaureate Degree Program" (Paul Bowdoin)

12. "Development of an Educations Professional Development Act (EPDA) Proposal and a Pilot Project on Differentiated Staffing in Post-Secondary Schools" (George O'Kelley)

13. "Occupational Information Center for Education--Industry" (Beverley Johnson)

14. "Phase III Trade and Technical Curriculum Project" (Earl Williams)

PROJECTS AND ACTIVITIES PLANNED:

1. Workshop V - Increasing Counselor Effectiveness in Working with Disadvantaged and Handicapped Students

2. Development of a State evaluation system for vocational and technical education

3. Establishment of a system and procedure for funding individual projects designed for disadvantaged and handicapped students

## HAWAII

Samson S. Shigetomi, State Director for Vocational Education

Sybil Kyi, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

IDAHO

Roy Irons, State Director for Vocational Education

William R. Swenson, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

ILLINOIS

Sherwood Dees, State Director for Vocational Education

Robert Kent Gray, RCU Director

PROJECTS COMPLETED:

1. "A Need Survey and Feasibility Study of Area Paramedical Occupations" (John E. Robinson)

NEW PROJECTS FUNDED:

1. "Enriching the Basic Scholastic Skills of Students who are Academically, Socially, and Economically Disadvantaged through Vocational Centered Laboratory Learning" (Robert Walker)

2. "Surveys of Counselor Educators and Secondary School Counselors Concerning Graduate Preparation in Vocational Guidance and Guidance Information Service" (Richard Bradley)

3. "Vocational-Technical Training Study for Industry in the St. Louis Metropolitan Region" (Charles James)

4. "Manpower and Training Survey" (Carl Larson, Jr.)

5. "Preparedness Program" (Philip Walker)

6. "Facilitating Career Development An Annontated Bibliography" (Larry Bailey)

7. "Demonstration and Research Center in Vocational Guidance" (Harold Sutter)

8. "Experimental Vocational Program" (Harold Collier)

9. Career Development Program" (Frank Lentz)

10. "Enriching the Basic Scholastic Skills of Disadvantaged Youths Through Vocational-Centered Laboratory Learning" (James Trotter)

11. "An Experimental Program in Vocational Education" (Loren Kennedy)

12. "Computerized Vocational Information System" (Jo Ann Harris)

13. "Experimental Aerospace Program" (Edward Blue)

14. "Technical Mathematics" (Paul Thompson)

15. "Joint Occupational Orientation Project: An Experimental Approach to Vocational Education" (Paul Doescher)

16. "A Pilot Study in Teacher Education to Provide Technological Resources for In-service Industrial Teachers to Relate Contemporary Technological Practices to Industrial Education Content and Program Development" (E.A. Jacobsen)

17. "Delinquency Intervention Program in the Carbondale Community High School, Phase II" (Richard Pooley)

18. "Marion Experimental Research of Catacheristic Youth" (Larry Vincent)

19. "Research Development Project in Occupational Education: The Development of Process Models for Decision-making in Curriculum Development and Evaluation" (Joseph Borgen and Dwight Davis)

20. "Facilitating Career Development at the Elementary Level"

21. "Development of an On Line Pupil Data Bank" (W.T. Briggs)

22. "System for Individualized Vocational Education" (Thomas Koerner)

23. "Micro-teaching and Video-taping for Preservice and Inservice Education" (Richard Nelson)

24. "Research and Development Priorities and Planned Activities" (Walter Wernick)

25. "Demonstration Workshop Services in Data Processing" (William Carpenter)

26. "Commercial Horticultural Skill-Practice Institute for Illinois Secondary and Junior College Agricultural Occupations Instructors: A Private Industry Approach"

27. "Cooperative Junior College Computer Study" (Carl E. Thornblad)

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED:

1. "The World of Work as an Organizing Center for the Curriculum of The Elementary School"

2. "An Exemplary Program in Prosthetic-Orthetic Education"

## INDIANA

H. Robert Hewlett, State Director of Vocational Education

Allan D. Goecker, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. "A Research Project in Vocational Capabilities and Opportunities in Business and Industry" (William V. Myers)

2. "A Feasibility Study for Occupational Education" (J. Everett Light)

3. "Study of Employment Opportunities for Indiana Agriculture" (Dr. Ralph Field)

4. "A Vocational Training Program for Students Who Terminated Their Education Prior to Obtaining a Salable Skill" (Tom Garrison)

5. Mini-Grants Projects

6. "Vocational Programs Booklet" (Karen Leonard)

7. "Preparation of 8 mm Loops for Use in Teaching Commercial Sewing" (Mildred Shaffer)

8. "A Program for Certified Electronics Technician Apprentice" (George Sortwell)

9. "What the Vocational School Has to Offer the Community" (George Sandala)

10. "Organization of a Vocational Materials Center" (Arthur L. Taylor)

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

IOWA

William O. Schuerman, Director for Vocational Education

Kenneth M. Wold, RCU Director

PROJECTS COMPLETED:

1. "Recommended Homemaker Home Health Aide Competencies: Food Production and Child Care" (Evelyn B. Ruehr)

2. "Self-Instructional Materials in Home Management for Vocational Schools" (Norma Jean McKerlick)

3. "Radio-TV Service Technician Training Needs of Iowa" (Glenn F. Dukes)

4. "Personnel Needs of Iowa Automotive Service Industry" (Dale P. Schumacher)

5. "Iowa Business Patterns by County Groupings, 1966-1968" (Dept. of Public Instruction)

6. "Major Household Appliance Service Technician Training Needs of Iowa" (Robert L. Stephens)

7. "Learning Experiment: Determine Effectiveness of Controlling Environmental Distractions" (Paul E. Sumter)

8. "Characteristics of the Disadvantaged Residents and Potential Human Resources in Area XI Community College District" (Clayton P. Omvig)

9. "Identification of Selected Clusters of Occupations Requiring Similar Home Economics Competencies" (Jean M. Hassebrock)

10. "Development of a Safety-Instructional Guide for Housekeeping Aides in Three Home Economics Related Occupations" (Jean M. Hassebrock)

11. "Competencies Needed by Homemakers/Home Aides in Caring for Ill or Disabled Adults" (Virginia Caples)

12. "Pilot Pattern for Home Management Instruction in Area Vocational School Curricula Based on Problems of Young Homemakers Employed Full-Time in Clerical and Sales Occupations" (Virginia F. Thomas)

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Abstracts of Vocational Research, Iowa

2. Selected Bibliography of Iowa Research In Vocational-Technical Education and Related Areas -- 1966-1969

PROJECTS AND ACTIVITIES PLANNED:

1. Establish a statewide survey of manpower needs through the area schools

## KANSAS

John E. Snyder, State Director for Vocational Education

John E. Snyder, RCU Director

PROJECTS COMPLETED: NONE

PROJECTS FUNDED:

1. "A Computerized State-Wide Follow-Up System which Utilizes Sampling as a Data Collection and Projection Technique" (Ken Hoffman)

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

## KENTUCKY

Carl F. Lamar, State Director for Vocational Education

Clayton P. Omvig, RCU Director

PROJECTS COMPLETED:

1. "Institute to Promote Understanding of Vocational Guidance Among Various Agencies Providing Counseling Services"

2. "A Development Program in Distributive Education Utilizing Simulated Occupational Experience"

3. "Inter-Disciplinary Program in Vocational Education"

NEW PROJECTS FUNDED:

1. "A Feasibility Study to Determine Occupational Entry Requirements" (RCU)

2. "Profile Indicators of Student Success in Vocational Education (RCU)

3. "Procedures and Techniques for Locally Directed Evaluation of Vocational Education in Central Kentucky"

RESEARCH RELATED ACTIVITIES:

1. Held a Workshop on Developing Procedures and Techniques for Evaluating Manpower Development and Training Act Programs in Kentucky

2. Developed and tested an instrument to ascertain a profile of vocational education teachers and their inservice education needs

3. Assisted proposal development

4. Published the KRCU Newsletter

PROJECTS AND ACTIVITIES PLANNED:

1. "Institute for Training Vocational Education Staff in the Systems Approach to Long-range and Annual Planning"

2. "Workshop on Determining and Using Performance Objectives"

3. "Comprehensive Study of Vocational and Technical Education in Kentucky"

4. Initiate the plan for conducting a 3-year statewide assessment of vocational education

5. Conduct studies of selected occupational competencies

6. Conduct a survey of the professional education needs of vocational education personnel with less than a baccalaureate degree

## LOUISIANA

Thomas S. Derveloy, State Director for Vocational Education

Paul B. Brown, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Made a survey of availability and utilization of classroom and/or shop space per course in Louisiana vocational-technical schools

2. Made a survey of vocational interest of high school students

3. Maintained a research materials library

4. Participated in the State Management Review of the Department of Education

5. Worked on development of a technical training program for employees of Freeport Sulphur Co.

6. Participated in preparation of the State Plan for Vocational Education

7. Gathered data which will provide direction for future planning for vocational-technical schools

8. Fulfilled requests for publications and materials relating to research

9. Attended and/or participated in numerous meetings or conferences

10. Initiated a class in welding at Bastrop, Louisiana

PROJECTS AND ACTIVITIES PLANNED: NONE

## MAINE

Elwood A. Padham, State Director for Vocational Education

Elwood A. Padham, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

## MASSACHUSETTS

Walter J. Markham, State Director of Vocational Education

William G. Conroy, Jr., RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. "Massachusetts and New York Evaluation Service Center for Occupational Education"

RESEARCH RELATED ACTIVITIES:

1. Made surveys for the establishment of new regional vocational-technical schools

PROJECTS AND ACTIVITIES PLANNED:

1. "Multi-occupational Exploration for Junior High and Middle School Girls: Program Development Implications of Concern with the Self Concept of the Non-College Bound Girl" (Mary E. Green)

## MICHIGAN

Edwin St. John, State Director for Vocational Education

Thomas Wilbur, RCU Director

PROJECTS COMPLETED:

1. "A Study of Opinions About Vocational Education in Michigan"

NEW PROJECTS FUNDED:

1. "Vocational-Technical Education Development Study"

RESEARCH RELATED ACTIVITIES:

1. Began to establish an evaluation system for vocational education in the State
2. Developed an administrative guide for implementation of the State plan for vocational education
3. Conducted literature searches
4. Solicited proposals for exemplary projects
5. Wrote proposals
6. Developed plans for disseminating information regarding vocational education
7. Developed procedures for using the ERIC system
8. Participated in advisory activities concerning vocational education
9. Established evaluation procedures for vocational education programs on a local and statewide basis

PROJECTS AND ACTIVITIES PLANNED: NONE

## MINNESOTA

Robert P. Van Tries, State Director for Vocational Education

Jerome Moss, Jr. and Howard F. Nelson, RCU Co-Directors

PROJECTS COMPLETED:

1. "A Study of the Relationship Between Achievement in Graduate Programs and Prior Academic Achievement"

2. "A Study to Assess Research Sources"

3. "A Study to Determine Research Priorities"

4. "Small Grant Program (Twelve Research Projects)"

NEW PROJECTS FUNDED:

1. "A Study to Determine the Relative Effectiveness of Using a Peer Group or a Group of High School Students for Providing Feedback in Microteaching Experience"

2. "A Study on the Occupational Aspirations and Expectations of High School Students"

3. "A Study to Determine the Perceptions of High School Students Toward Post-Secondary Vocational Programs in AVTE and Junior Colleges in Minnesota"

RESEARCH RELATED ACTIVITIES:

1. Developed a general model for measuring the effectiveness of post-high school vocational program

2. Prepared a technical report on the development of an education production function

3. Initiated an effort to develop measures for describing the characteristics of vocational programs

4. Developed abstracts of R & D projects on career orientation programs

5. Published <u>News Reviews</u>

6. Developed document providing tips on "How to Develop Orientation to the World of Work Experiences"

7. Prepared review of literature on women's occupational development patterns

8. Disseminated a review of literature on student selection and the prediction of success in occupational education

9. Developed a review of research on the curriculum development process

10. Developed a technical report on methods of reviewing research literature

11. Conducted seminars on the structure of technology with implications for industrial arts education and on the application of linear regression models to problems in vocational education

12. Conducted a lecture series on the development of vocational teacher education

PROJECTS AND ACTIVITIES PLANNED:

1. Fellowship program to prepare researchers in vocational education

2. Fellowship program to train leaders in vocational education

## MISSISSIPPI

A. P. Fatherree, State Director of Vocational Education

James E. Wall, RCU Director

PROJECTS COMPLETED:

1. "Local Evaluation of Vocational Programs for the Disadvantaged Youth in Mississippi" (James F. Shill and Allen T. Steed)

2. "Institute IV: Expanding Vocational Education Curriculums to Meet the Needs of Disadvantaged Youths and Adults in Rural Areas" (James E. Wall and James F. Shill)

3. "Follow-up of Vocational Grad[illegible]es in Mississippi" (James E. Wall)

4. "Social Origins and Career Pa[illegible]erns of Vocational Educators: A Study in Occupational Mobility" (Richard R. Butler)

5. "A Description and Self-Appraisal of Agricultural Programs for High School Students with Special Needs in Mississippi" (Allen T. Steed)

6. "Follow-up of Business Education Graduates of Mississippi State University for the Years 1960 through 1968" (Shirley T. Alcantara)

7. "The Mississippi Evaluation Systems Project in Occupational Education" (James E. Wall and James F. Shill)

8. "Self-Appraisal of Vocational-Technical Education in Mississippi by Local School committees and Instructors" (Arthur R. Jones)

NEW PROJECTS FUNDED:

1. "State Advisory Council Evaluation of Vocational-Technical Education" (James E. Wall and James F. Shill)

2. "An Approach to Local Evaluation of Vocational Education Programs in Mississippi" (James E. Wall and James F. Shill)

3. "Implications for Vocational Education of the Socio-Economic Conditions of the Mississippi Choctaw Indians (John H. Peterson, Jr.)

RESEARCH RELATED ACTIVITIES:

1. Disseminated completed studies in administrative reports and professional magazines

2. Assisted in developing the EPDA State plan and exemplary program planning

PROJECTS AND ACTIVITIES PLANNED: NONE

## MISSOURI

B.W. Robinson, State Director for Vocational Education

Glenn White, RCU Director

PROJECTS COMPLETED:

1. "The Expressed Educational Needs of Missouri Home Economics Teachers in Relation to Inservice Education" (Lois H. Hughes, Beverly Crabtree, and Marilyn Osborn)

NEW PROJECTS FUNDED:

1. "A Feasibility Study for Establishing a Training Program for Calibration Technicians" (John Baker)

RESEARCH RELATED ACTIVITIES:

1. Made a study to develop auto-instructional materials in career development for inservice training for counselors

2. Made a study investigating selection procedures being used in practical nursing programs throughout the State

3. Made a study compiling data from a survey of industrial arts teachers in Missouri

4. Made a study developing recommendations for personnel and program activities in vocational orientation at the elementary level.

5. Refined and operated the computer-based information system

6. Coordinated with the Division of Employment Security relative to developing systematic procedures for collecting manpower data

PROJECTS AND ACTIVITIES PLANNED:

1. Planning the FY 1971 RCU program

## MONTANA

Benjamin Ulmer, State Director for Vocational Education

Robert Hammond, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

## NEBRASKA

Glen H. Strain, State Director for Vocational Education

Chalmers A. Cromer, RCU Director

PROJECTS COMPLETED:

1. "Occupational Opportunities in Nebraska - 1969 Report" (Nebraska RCU)
2. "A Model for Occupational Teacher Education" (James Miller)
3. "Study of Local Vocational Needs in Bellevue"
4. "Identifying Major Tasks Performed by Food Service Workers in Commercial and Institutional Food Serving Establishments" (Mary Ann Greiser)
5. "Skills and Knowledge Needed by Personnel in Architectural Drafting" (Homer A. Mattson)
6. "Occupational Opportunities in Nebraska - 1970 Report"

NEW PROJECTS FUNDED:

1. "Activities of Administering, Coordinating, and Evaluating Exemplary Programs for Nebraska (James Bikkie)

RESEARCH RELATED ACTIVITIES:

1. Updated Statewide Model for Occupational Opportunities in Nebraska
2. Assisted preparation of proposals
3. Prepared training proposal for inservice education of Nebraska cooperative instructors

PROJECTS AND ACTIVITIES PLANNED: NONE

## NEVADA

John W. Bunten, State Director for Vocational Education

J. Clark Davis, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Developed a computerized vocational education management system providing reports for control, management analysis, and U.S. Office of Education reports
2. Developed a computerized follow-up system

PROJECTS AND ACTIVITIES PLANNED: NONE

## NEW HAMPSHIRE

Neal D. Andrew, State Director for Vocational Education

Gloria Cooper, RCU Director

PROJECTS COMPLETED:

1. "Prevocational Training for Handicapped and Disadvantaged Students, Grades 7-12 in Merrimack Valley School District"
2. "A Look at the Dropout problem in Spaulding High School, Rochester, N.H."
3. "A Study to Determine the Direction of Vocational Education at Berlin High School"

NEW PROJECTS FUNDED:

1. "Area Needs in Health Occupations Education" (Robert L. Day)

2. "A Public Relations Approach Toward Stimulating Community Support for Vocational Education" (Charles A. Storms)

3. "A Study of the Vocational Programs Needed in Three New Hampshire Secondary Schools" (Jason E. Boynton)

RESEARCH RELATED ACTIVITIES:

1. "Developed a Plan of Action to Provide a Comprehensive Program of Vocational-Technical Teacher Education in New Hampshire"

2. Developed EPDA State plan and the State exemplary project "World of Work"

3. Prepared "New Hampshire Vocational-Technical Teacher Education Study Report"

4. Planned and implemented initially the New England Occupational Education Resource Center

PROJECTS AND ACTIVITIES PLANNED:

1. Identification of issues and problems facing vocational education, including data gathering

2. Complete implementation of the New England Occupational Education Resource Center

3. Stimulate local research activities

## NEW JERSEY

Robert Worthington, State Director for Vocational Education

Harold R. Seltzer, RCU Director

PROJECTS COMPLETED:

1. "Pilot Program Studying Use of Electronic Equipment in the Stenography Classroom" (Gilbert Kahn, Walter Brower, Michael Travis)

2. "Electronic Data Processing Research Project: A Feasibility Study" (M. Herbert Freeman, Michael Travers, Peter Yacyk)

3. "Leadership Project in Distributive Education" (Garland Wiggs)

4. "A Study of the Role of the Community College in the Development of Self and Occupational Concepts" (Bruce W. Tuckman

5. "A Study of the Effectiveness of Directive versus Non-Directive Vocational Teachers as a Function of Student Characteristics and Course Format"

NEW PROJECTS FUNDED:

1. "Investigation of the Effectiveness of A Design for Initiating Curriculum Change in Home Economics" (Mary B. Kievit)

2. "Cooperative Occupational Pre-Teaching Experience" (Albert J. Paulter

3. "Occupational Competency Testing" (Carl J. Schaefer, Melvin Barlow, Richard Nelson)

4. "Pilot Public Information Unit" (Rodney Jurist)

5. "The Study of Curriculums for Occupational Preparation and Education (SCOPE)" (Bruce W. Tuckman)

RESEARCH RELATED ACTIVITIES:

1. "The Improvement and Expansion of Business Teacher Education at Montclair State College" (M. Herbert Freeman)

2. "Evaluation of Home Economics Related Occupation Program" (Mary B. Kievit)

PROJECTS AND ACTIVITIES PLANNED: NONE

## NEW MEXICO

Weldon Perrin, State Director of Vocational Education

Hilda Majors, RCU Director

PROJECTS COMPLETED:

1. "A Traveling Seminar to Identify Emerging Patterns in Establishing Plant Science Laboratory Facilities and Curricula in New Mexico Public Schools

2. "A Summary Report on Trainees in New Mexico's Area Vocational Schools" (George Prigmore, Herbert Hughes)

3. "A Look at Vocational Education in New Mexico"

NEW PROJECTS FUNDED:

1. 40 Mini-grants

2. 4 follow-up surveys

RESEARCH RELATED ACTIVITIES:

1. Compilation of data for the State legislature
2. Preparation of an area schools' brochure

PROJECTS AND ACTIVITIES PLANNED:

1. Development of policy and procedures for the operation of vocational education
2. "A Look at Vocational Education 1970"
3. "Needs Project for New Mexico"
4. Completion of mini-grants
5. Survey of new program needs for 1971-72

## NEW YORK

Robert S. Seckendorf, State Director for Vocational Education

Louis A. Cohen, RCU Director

PROJECTS COMPLETED:

1. "A Study of Student Dropouts from Vocationally Oriented Business Programs at Nassau Community College"
2. "The Attitudes of School Board Members Toward Occupational Education--Final Report" (Western New York School Study Council)
3. "Race, Sex, and Social Mobility -- An Exploration of Occupational Aspirations and Expectations Among Black and White Youth in Four New York State Cities"
4. "A Model for the Evaluation of Area Occupational Centers" (Monroe County BOCES No. 1)
5. "The Nature of Entry Requirements in Registered Apprentice Training as Established by Program Sponsors in New York State - 1970" (Joint Report of New York State Department of Labor and Education)

NEW PROJECTS FUNDED:

1. "Employment Follow-up Survey of Nassau County Secondary Industrial-Technical Vocational Program Students" (Nassau County BOCES, New York State Labor Department, and the Bureau of Occupational Education Research)

2. "Evaluation of a Continuous Work Experience Program for Educable Mental Retardates" (Steuben County BOCES and the Bureau of Occupational Education Research)

3. "Systems Analysis and Gross Design for a Proposed Occupations Education Information System" (Albany County BOCES and the Bureau of Occupational Education Research)

4. "An Analysis of Selected Urban Culturally Disadvantaged Secondary School Graduates, June 1969, from Occupational Curriculums" (SUNY Buffalo)

5. "A Pilot Educational Program Between Topic House and Nassau Community College" (Nassau Community College)

6. "The Use of Simulation Material for Creating Occupational Awareness for Non-College Bound Persons -- Phase II" (Indiana University)

RESEARCH RELATED ACTIVITIES:

1. Published and disseminated research reports

2. Published RCU Newsletter

3. Prepared section of the Governer's Quarterly Report

4. Conducted literature searches for the Bureau of Guidance, the Commissioner's Task Force on Narcotics Abuse, and the Bureau of Two-Year College Programs

## NORTH CAROLINA

Charles J. Law, Jr., State Director for Vocational Education

W.J. Brown, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Completed a preliminary evaluation of 21 pilot projects in occupational exploration in the middle grades

2. Made a study of educational interest and manpower needs within a two-county area served by a technical institute

3. Made a study of disadvantaged people's perceptions of technical institutions and community colleges

4. Renewed a follow-up study of vocational education graduates

5. Synthesized evaluation reports from about 40 technical institutions and community colleges which conducted workshops on articulation between secondary and postsecondary programs

PROJECTS AND ACTIVITIES PLANNED:

1. Evaluation of 43 continuing and new projects in middle grade occupational exploration

2. Definition and measurement of articulation between secondary and postsecondary institutions

3. Development, monitoring, and evaluation of exemplary projects

## NORTH DAKOTA

Carrol E. Burchinal, State Director for Vocational Education

Ben Doutt, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Continued statewide Employer's Survey

PROJECTS AND ACTIVITIES PLANNED:

1. Develop evaluation system to determine effectiveness of vocational education. First step will be to develop procedures.

## OHIO

Byrl R. Shoemaker, State Director for Vocational Education

C. O. Tower, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Designed PRIDE (Program Review for Improvement, Development, and Expansion of Vocational Education in Ohio), which is a procedure for evaluating vocational programs at all levels

2. Prepared manpower needs studies

3. Prepared vocational education studies for the formation of vocational school districts

4. Prepared follow-up of vocational enrollees

5. Developed a manual for estimating vocational school capital outlay and equipment costs and operating costs

6. Developed an investment plan for vocational education facilities

7. Maintained a library of pertinent documents and an ERIC service

8. Assisted preparation of research and exemplary proposals

9. Maintained and improved the design of a system for collecting and storing data on vocational education

PROJECTS AND ACTIVITIES PLANNED: NONE

## OKLAHOMA

Francis T. Tuttle, State Director for Vocational Education

William D. Frazier, RCU Director

PROJECTS COMPLETED:

1. "State-wide System of Area Vocational-Technical Training Centers for Oklahoma" (Charles O. Hopkins)

2. "The Project Method in Distributive Education: Student Achievement in selected Areas" (Jimmie Ford Thrash)

3. "A Comparison of Two Follow-up Methods Used to Survey Occupational Training Graduates" (William D. Frazier and James L. Harris)

4. "The Enrollment Rates, Dropout Rates, and Economic Benefits that Characterize the Experience of the Disadvantaged in Oklahoma's Occupational Training" (James L. Harris)

NEW PROJECTS FUNDED:

1. "A Program Guide for Career Development in Health Occupations: A Guide for Career Development in Sub-Professional Health-Related Occupations -- Nursing Assistant Licensed Practical Nurse" (William W. Stevenson)

RESEARCH RELATED ACTIVITIES

1. Made a follow-up of vocational graduates, 1968-69 (William D. Frazier)

2. "Review and Synthesis Research in Technical Education in Oklahoma" (David Anderson)

3. "A State Program for Administering Cooperative Arrangements for Training and Retraining Vocational Education Personnel" (Arch Alexander and William W. Stevenson)

4. Developed a proposal for "An Exemplary Comprehensive Occupational Orientation Vocational Education Program for Selected Oklahoma Schools" (Byrle Killian and William O. Frazier)

5. Directed Western Metropolitan Areas Institute II - Updating the Process and Content of Teacher Education Courses to Reach Disadvantaged Adults in Metropolitan Areas

6. Coordinated 11 workshops for teachers of the disadvantaged, "A Special Effort to Meet a Special Need"

PROJECTS AND ACTIVITIES PLANNED:

1. Development of policies and procedures for statewide planning and evaluation in vocational and technical education

2. Reestablish VEIN, the RCU Newsletter

3. Survey business and industry in areas of agriculture, health, and service occupations; update 1969 Manufacturing Occupations Survey

## OREGON

Leonard Kunzman, State Director for Vocational Education

Leonard Kunzman, RCU Director

PROJECTS COMPLETED:

1. "Development of a Comprehensive Health Occupations Teacher Education Program"

NEW PROJECTS FUNDED:

1. "Oregon Fishing Industry: Education and Training" (Donald Giles)

2. "Evaluation Study of Related Training for Apprentices" (Michael Saslow)

3. "Facilities Guide for Occupational Cluster Programs" (State Board)

RESEARCH RELATED ACTIVITIES:

1. Planned and developed a model teaching station and curriculum for consumer education

2. Provided consultative services to local education agencies in location and evaluation of research reports pertinent to planning new and more effective programs, particularly in the area of occupational exploration

PROJECTS AND ACTIVITIES PLANNED: NONE

## PENNSYLVANIA

John Struck, State Director for Vocational Education

Jay Smink, RCU Director

PROJECTS COMPLETED:

1. "Huntington County Cooperative Vocational Education Programs" (Donald Miller)

2. "Three One-Day Management Conferences for Vocational Educators, Supervisors, Directors, and Coordinators" (William Williams)

3. "Factors Affecting the Employability of Vocational Bookkeeping Students" (Lois A. Luxner)

4. Planning Grant - "Pennsylvania Vocational-Technical Information Dissemination System" (Joseph F. Blake)

5. "Enhancing the Research Skills of Vocational Education Faculty" (Earnest L. Peters)

6. Planning Grant - "Proposed Research to Alleviate the High Dropout Rate of Stenographic Students in Secondary Schools of Pennsylvania" (Betty Ripka)

7. "Introduction to Occupations - Grades 7 to 12" (William T. Kelly)

8. "Migrant Worker Equipment Operation and Maintenance Program" (M. Francis Culson)

9. "Preparation of Machine Shop Practice Course of Study" (William Williams)

10. "Developing and Testing an Occupational Experience Record System in Vocational Education" (Rodney Toldini)

11. "Development Project Training Liaison Personnel for Program Implementation in the Areas of Special Education and Vocational Education in Urban Public Schools" (Robert Roldini)

12. "A Survey of Accidents Occurring in Industrial Arts Laboratories of Pittsburgh Public Schools from 1965 through 1970" (Donald C. Gamble)

13. "Symposium - The Role of Continuing Education in Pennsylvania" (Pennsylvania Association for Public School Adult Education)

14. "Revision of the Freviously Implemented Curriculum Designed for Teaching the Service Occupations in the Penn Hills School District Vocational Department" (Arthur C. Kelley)

NEW PROJECTS FUNDED:

1. "A System for Follow-Up of Vocational Education Graduates" (Max Eninger)

2. "Vocational Horticulture Pilot program" (Woodrow W. Schrock)

3. "Inventory of Continuing Education Activities of Higher Learning and Secondary Schools" (H.L. Marlow)

4. "Pilot Program in Vocational and Technical Education for All Secondary Schools in Fulton County" (Cecil P. Cessna)

5. "Project SET - Select Employment Trainee" (John Pardini)

6. "Pennsylvania Vocational-Technical Education Information Dissemination System" (Joseph F. Blake)

7. "Milk Marketing Instructional Unit Development and Dissemination" (Sam Curtis)

8. "Shorthand Attrition Research Proposal -- A Study to Identify the Characteristics of Students Who May be Unsuccessful in the Study of Shorthand" (Elizabeth Ripka)

RESEARCH RELATED ACTIVITIES:

1. Cooperated in the development of a model for state-wide dissemination of occupational information to vocational educators

2. Developed a labor market model for State program planning and evaluation in vocational education

3. Assisted Division of Vocational Guidance in development of Career Resource Centers

4. Made a survey of vocational guidance and counseling activities for the Pennsylvania Vocational Education Study

5. Sponsored a 3-week Vocational Research Institute at West Chester State College

6. Completed a study to determine vocational research priorities. Results were included in a RCU publication, Vocational Education Research Handbook

7. Developed an evaluation system for the proposed new curriculum for undergraduate Industrial Arts majors

8. Conducted literature searches for interested individuals and agencies

9. Published the RCU Reporter

10. Published Pennsylvania's Abstracts of Research and Related Materials in Vocational Education (PARM), which contains a review of all research projects funded in Pennsylvania and makes recommendations for improvement

11. Published and disseminated the Pennsylvania Vocational Education Study, which reports the current status of vocational education in Pennsylvania and makes recommendations for improvement

PROJECTS AND ACTIVITIES PLANNED:

1. To identify additional research resources, including personnel, funds, institutions, and agencies

2. To continue on-going efforts such as reviewing research proposals, project monitoring, development of the statewide information dissemination system, and so on

## RHODE ISLAND

Thomas H. Sandham, Jr., State Director for Vocational Education

Orrin LaFerte, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

## SOUTH CAROLINA

Cecil H. Johnson, Jr., State Director for Vocational Education

John H. Rodgers, RCU Director

PROJECTS COMPLETED:

1. "Investigation of Critical Elements Involved in Making a Standard Processor Camera Compatible with the ERIC System" (John H. Rodgers)

NEW PROJECTS FUNDED:

1. "Occupational Opportunities and Vocational Programs for Orangeburgh and Calhoun Counties" (John H. Rodgers)

2. "Development of a Practical Format for Producing Vocational Guidance Materials on Aperture Cards (Microfilm) for Use in Public Schools"

RESEARCH RELATED ACTIVITIES:

1. Evaluated programmed instructional materials in teaching principles of air-cooled engines

2. Evaluated a dropout prediction model

3. Disseminated research information and curriculum materials under the Selective Dissemination of Information Program

4. Developed and published Review and Synthesis of Research in Agricultural Education (John H. Rodgers)

5. Made studies of occupational opportunities and vocational programs for Cherokee and Berkeley Counties

6. Prepared guidance materials for the VIEW Program (Vital Information for Education and Work)

PROJECTS AND ACTIVITIES PLANNED:

1. Occupational opportunities surveys

2. Preparation of VIEW materials

## SOUTH DAKOTA

E. B. Oleson, State Director for Vocational Education

E. B. Oleson, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

## TENNESSEE

Charlie M. Dunn, State Director for Vocational Education

Garry R. Bice, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Made compilation and analysis of data for a study: "The Effect of Vocational Education on Employment Experiences in Tennessee"

PROJECTS AND ACTIVITIES PLANNED:

1. Development and implementation of an information retrieval and dissemination system for vocational-technical education in Tennessee

2. Evaluation

3. Development of guidelines and procedures necessary for the implementation of a mini-grant program

4. Identification of research needs and activities for Tennessee

## TEXAS

John R. Guemple, State Director for Vocational Education

Ray Barber, RCU Director

PROJECTS COMPLETED:

1. "An Investigation into Public Postsecondary Electronic Technology Programs in Texas with Implications for Planning" (Texas A&M University)

2. "A Study of Buildings and Equipment in Texas Junior College Drafting Technology Programs with Implications for a Planning Guide" (Texas A&M University)

NEW PROJECTS FUNDED:

1. "A Study of Postsecondary Automotive Mechanics Programs" (Central Texas College)

2. "A Junior College Occupational Teacher Preparation Program" (East Texas State University)

RESEARCH RELATED ACTIVITIES:

1. Effected coordination and development of the Texas State Plan for Vocational Education

PROJECTS AND ACTIVITIES PLANNED:

1. Occupational orientation

2. Curriculum development

3. Pilot-demonstration projects in occupational education for handicapped students

UTAH

Vaughn Hall, State Director for Vocational Education

John F. Stephens, RCU Director

PROJECTS COMPLETED:

1. "Evaluation of Post-Secondary Summer Programs for Secondary Students" (Von Robertson)

2. "Development of Materials for Evaluation of Project SUCCESS" (Richard Keene)

3. "Study of Physical and Emotional Factors Encountered by Women Returning to Secretarial Employment After Prolonged Absence" (Glenna Lloyd)

4. "Foundations for a Seventh Grade Guidance Program" (Fred Rowe)

5. "RCU Branch Office" (Austin Loveless)

6. "Project MACE unit movement" (Jerald Howley)

NEW PROJECTS DUNDED:

1. "Assessment of Consumer and Homemaking Education" (Carol Israelson)

2. "Evaluation of Post-Secondary Pre-Tech Program" (Davis Ballard)

3. "Experimental Occupational Information Dissemination Program" (S.D. Logan and M.L. Peterson)

4. "Vocational Education for Rural Youth" (S.D. Millard)

5. "Project Follow-Up" (in-house)

6. "Development of Handbook for Coordinators of Cooperative Work Study Programs" (Thomas Croadmun)

7. "Identification of Tasks Performed by Merchandising Employees in Retail Establishments" (Gary Lloyd)

8. "Evaluation of Salt Lake High School" (Marian Martin)

9. "Project MACE training and final report preparation" (Robert Charlton and Linda Charlton)

10. "Project RESPECT" (Paul G. Butterfield)

11. "Project RESPECT, Administration" (George Campbell)

12. "Project RESPECT, Evaluation" (Anthony Mitchell)

RESEARCH RELATED ACTIVITIES:

1. Participated in 10 conferences/workshops

2. Observed work experience programs in Sacramento, California and surrounding areas

FUTURE ACTIVITIES PLANNED:

1. "RESPECT" Evaluation

2. "SUCCESS" Evaluation

3. Specialists' Problems

4. "MACE" Evaluation

5. Project "Follow-Up"

6. Elementary Level World of Work Program

## VERMONT

Cola D. Watson, State Director for Vocational Education

Joseph P. Kisko, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. "A Model for Collecting and Analyzing Follow-Up Data on Graduates and Dropouts of Vocational Education in Vermont" (Gerald R. Fuller and Joseph P. Kisko)

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED:

1. Develop a model for a reliable data collection system for planning purposes

2. Study the ways and means of recruiting and screening prospective students for pre-service teacher training in trade and industrial, home economics, and homemaking education

## VIRGINIA

George L. Sandvig, State Director of Vocational Education

George S. Orr, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. "Competencies Needed by Teachers of High School Ornamental Horticulture Courses"

2. "Evaluation of Instruction in Distributive Education"

3. "A Competancy Pattern Approach to Curriculum in Distributive Teacher Education -- Phase IV"

PROJECTS AND ACTIVITIES PLANNED:

1. Pilot project in office services education

## WASHINGTON

Ernest G. Kramer, State Director for Vocational Education

George P. Pilant, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Maintained the information system

2. Continued in-house activities concerned with program planning, evaluation, PPBS, and manpower needs analysis

PROJECTS AND ACTIVITIES PLANNED: NONE

## WEST VIRGINIA

Fred W. Eberle, State Director for Vocational Education

Glenn E. Smith, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Conducted ERIC orientations and searches of ERIC documents related to local exemplary program proposals

2. Assisted local educational agencies in data compilation

3. Conducted a workshop for local personnel concerning development of exemplary program proposals

PROJECTS AND ACTIVITIES PLANNED:

1. Consultative services to local agencies relative to conducting local surveys for program determination

2. RCU Information Services

3. Designing State vocational program reporting system

## WISCONSIN

C. L. Greiber, State Director for Vocational Education

Roland J. Krogstad, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. RCU staff participated as resource persons on local workshops

in research and ERIC dissemination services

2. Held regional meetings to assist development of exemplary projects

3. Developed guidelines for inter-agency relations

4. Cooperated in a 7-State pilot information system dissemination program

5. Disseminated newsletter "Bits About Research"

6. Developed procedures for performing searches in the established ERIC library of microfiche and briefed State and district staff on use of the library

7. Performed surveys of literature through ERIC on priority administrative and legislative problems

8. Prepared "Guidelines for Statewide Follow-up Studies"

9. Cooperatively planned a 2-week research practices seminar with Stout State University for district research and instructional services staff

10. Held a research session metting at Professional Growth Week to discuss projects funded. A "Little ERIC" display to familiarize participants with the ERIC system was held at the Annual Adult Education Association Conference

## WYOMING

Dean Talagan, State Director for Vocational Education

Fred Black, RCU Director

PROJECTS COMPLETED:

1. "A Survey of Vocational-Technical Education Needs of Lovell, Wyoming" (Norman Opp)

2. "Occupational Education Needs of Green River/Rock Springs High School Students and Business and Industry" (Bruce C. Perryman)

3. "A Study to Determine Reasons for Wyoming High School Graduates Attending Out-of-State Private Business Schools" (Sharon Funkhouser)

4. "A Study of Wyoming Business Education Teachers' Knowledge and Understanding of Vocational Education" (Nancy Howe)

5. "State and Local Adult Basic Education Program Evaluation Survey for Wyoming"

6. "The Establishment of a Research Coordinating Unit for Vocational Education in Wyoming"

7. "Development of a Procedure for Continuous Evaluation of the Green River High School Business Education Program" (Barbara Arnold)

8. "Wyoming Industrial Arts Curriculum Guides, Grades K-12" (Donald L. Jeanroy)

NEW PROJECTS FUNDED: NONE

RESEARCH RELATED ACTIVITIES:

1. Developed Wyoming RCU Bibliography

2. Studied occupational education needs of Saratoga, Wyoming -- K-12 students and parents

3. Assisted preparation of proposals

4. Published and disseminated project reports

5. Participated in State Advisory Council meetings concerning master plan development and evaluation

PROJECTS AND ACTIVITIES PLANNED: NONE

## Civil Rights Compliance

Discrimination Prohibited - Title VI of the Civil Rights Act of 1964 states:

> "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance."

Therefore, any program or activity receiving financial assistance from the Department of Health, Education, and Welfare must be operated in compliance with this law.